INTERNATIONAL SEARCH REPORT

International application No.

		PCT	/JP2004/007042
A. CLASSIFIC Int.Cl	ATION OF SUBJECT MATTER B23B27/14, B23C5/16, B23B51/0	00, C04B35/80	
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ B23B27/14, B23C5/16, B23B51/00, C04B35/80			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922–1996 Jitsuyo Shinan Toroku Koho 1996–2004 Kokai Jitsuyo Shinan Koho 1971–2004 Toroku Jitsuyo Shinan Koho 1994–2004			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap		
. Y	JP 4-331070 A (Kabushiki Kai 18 November, 1992 (18.11.92), Claims (Family: none)		1-4
Y X	<pre>JP 7-157362 A (Mitsubishi Materials Corp.), 20 June, 1995 (20.06.95), Claims (Family: none)</pre>		1-4 5
P,X	JP 2004-136372 A (Japan Scient Corp.), 13 May, 2004 (13.05.04), Claims (Family: none)	nce and Technology	1-5
Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date and not in conflict with the application but cited to the principle or theory underlying the invention "X" document of particular relevance; the claimed invention step when the document is taken alone document of particular relevance; the claimed invention or other such document of particular relevance; the claimed invention or other step when the comsidered to involve an inventive step when the combined with one or more other such documents, such being obvious to a person skilled in the art document member of the same patent family		ne application but cited to understand ing the invention nee; the claimed invention cannot be be considered to involve an inventive en alone nee; the claimed invention cannot be ventive step when the document is her such documents, such combination led in the art	
Date of the actual completion of the international search 12 August, 2004 (12.08.04)		Date of mailing of the international search report 07 September, 2004 (07.09.04)	
Name and mailing address of the ISA/ Japanese Patent Office Au		Authorized officer	

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Form PCT/ISA/210 (second sheet) (January 2004)